

KOVALEVA, E. P., RYBALTOVSKIY, O. V., IVANOVA, M. A. and DEDASH, V. G.

"Examination of swine and cattle as to their complement fixation reaction to toxoplasmosis"

Veterinariya, vol. 39, no. 8, August 1962 pp. 24

RYBALTOVSKIY, O. V. and VLADIMIROVA, P. A. (Moscow Technological Institute of the Meat and Dairy Industry).

"Simplest method of pork trichinellascopy"

Veterinariya, vol. 39, no. 9, September 1962, p. 66

RYBALTOVSKIY, O. V., KOSMINKOV, N. E. and LOKHMANINKO, V. A. (Assistant Professor, Assistant and Scientific Co-worker, Moscow Technological Institute of Meat and Milk Industry)

"About morphologic differences of Trichinella capsules"

Veterinariya, Vol. 38, no. 7, July 1961, p. 48

Rybal'tovskiy, O. V. - Asst. Prof.

RYBALTOVSKIY, O. V. *Docent*

"Seasonal dynamics of hog sarcosporidiosis."

Veterinariya, Vol. 37, No. 4, 1960, p. 45

Moscow Tech. Inst. Meat and Fat Industry

ORLOV, I.V., professor; KALITOV, N.A., professor; TETERNIK, D.M., professor;
RYBALTOVSKIY, O.V., dotsent; KAS'YANENKO, I.I., dotsent.

Differentiation of Trichenella and similar parasites producing other
invasions in the muscles of swine. Veterianria 34 no.5:67-71 My '57.
(MLRA 10:6)

1. Chlen-korrespondent Vsesoyuznoy Akademii sel'skokhozyaystvennykh
nauk imeni Lenina (for Orlov). 2. Moskovskiy tekhnologicheskii in-
stitut myasnoy i molochnoy promyshlennosti.

(Trichina and trichinosis)

(Swine--Diseases and pests)

RYBALTOVSKIY, O. V.

✓ 1445. Use of carbon tetrachloride in the treatment of ascariasis.
O. V. Rybaltofskiy *Veterinaria*, 1955, No. 12, 41; *Referat. Zh. Biol.*
1956, Abstr. No. 52300. (Russian) C. C. BARNARD

STEPANOV, V.V.; KUDRYASHOV, A.V.; RYBALTOVSKIY, Ye.V.

Structures igneous activity, and metal potential of the
Alaygyrskiy and Saranskiy ore regions. Trudy Inst.geol.nauk
AN Kazakh.SSR 6:28-57 '62. (MIRA 16:6)
(Kazakhstan--Ore deposits)
(Kazakhstan--Geology, Structural)

I 45361-66 EWP(j) RM/JN

ACC NR: AP6033608

SOURCE CODE: CZ/0043/66/000/001/0079/0084

AUTHOR: Kalamar, Julius--Kalamar, Yu. (Engineer; Candidate of sciences; Bratislava);
Ryban, Bernard (Engineer; Bratislava) 29
B

ORG: Department of Organic Technology, Slovak Technical University, Bratislava
(Katedra organickej technologic Slovenskej vysokej školy technickej)

TITLE: Synthesis of substituted benzhydrylamines by Leuckart's reaction

SOURCE: Chemicke zvesti, no. 1, 1966, 79-84

TOPIC TAGS: chemical synthesis, amine, substituent

ABSTRACT: The authors developed a modification of the Leuckart reaction for the preparation of substituted benzhydrylamines using benzophenones, formic acid, and urea as raw materials in the presence of small amounts of a Ni catalyst. 17 different chemicals were prepared; out of these 8 were not previously described. The yields of the amines, related to benzophenones varied between 59 and 95%. The authors thank M. Zemanikov, Department of Analytical Chemistry, SVST for carrying out the analysis. Orig. art. has: 1 table. [Based on authors' Eng. abst.] [JPRS: 34,805]

SUB CODE: 07 / SUBM DATE: 29Apr65 / SOV REF: 001 / OTH REF: 019

Card 1/1 *all in*

09.00 1652

KLIMA, Milos; SVERAK, Jaromir; RYBAN, Josef

Retinal degeneration with multiple aneurysms. Cesk.ofth.16 no.7:
437-441 N°60.

1. Očni klinika KU v Hradci Kralove, prednosta prof.MUDr.Milos Klima,
a oční oddeleni OUNZ v Nachode, prednosta MUDr. J.Ryba.
(RETINA dis)

VASIL'YEV, Yu.K., kand. tekhn. nauk; RYBAN'CHENKO, Yu.I.; LARCHENKO, V.I.

Stepping-type reducing motors. Avtom. i prib. no.3:49-52
Jl-S '64. (MIRA 18:3)

L 32002-66 EWT(1)/EWP(m)/EWT(m) WW/JW

ACC NR: AP6020550

SOURCE CODE: UR/0414/66/000/001/0029/0035

AUTHOR: Rybanin, S. S. (Moscow)

ORG: none

TITLE: Turbulence in detonation

SOURCE: Fizika gorennya i vzryva, no. 1, 1966, 29-35

TOPIC TAGS: detonation, gas detonation, *TURBULENT FLOW*, *RAREFACTION WAVE*, *DETONATION WAVE*, *DETONATION VELOCITY*

ABSTRACT: The effect of turbulence in gas detonations was theoretically analyzed. Equations were derived for the velocity of the rarefaction and detonation waves in the presence of turbulence and for the gas parameters after the attenuation of the turbulence, i.e., after completion of the reaction. The velocity of the rarefaction wave was found to be dependent on the mean temperature as well as on the intensity of the turbulence. The detonation velocity is greater in turbulent flow than in laminar flow. The density and pressure in the final state are lower in the presence of turbulence than the corresponding Chapman-Jouguet point on a normal Hugoniot curve. Orig. art. has: 19 formulas. [PV]

SUB CODE: 19/ SUBM DATE: 27Jun65/ ORIG REF: 002/ OTH REF: 002/ ATD PRESS:

5021

Card

1/1 LC

UDC: 534.222.2+532.507

L 41708-66 EWT(1)/EWP(m)/EWT(m)/T WW/JW/WE

ACC NR: AP6019533

SOURCE CODE: UR/0020/66/168/004/0857/0859

AUTHOR: Rybanin, S. S.

ORG: Moscow Physico-Technical Institute (Moskovskiy fiziko-tekhicheskiy institut)

TITLE: Unidimensional model of detonation in heterogeneous systems

SOURCE: AN SSSR. Doklady, v. 168, no. 4, 1966, 857-859

TOPIC TAGS: detonation, shock wave, combustion mechanism, detonation kinetics,
SHOCK WAVE VELOCITY, HEAT LOSS

ABSTRACT: A theoretical description is given of a unidimensional model of detonation in a heterogeneous system composed of a tube filled with an oxidizing gas and with a condensed-phase fuel spread over the inner wall of the tube. Adiabatic curves and the Michelson straight lines are graphed for the hexadecane-oxygen system. It is concluded that for the detonation of the heterogeneous systems, the detonation wave velocity limits are determined both by the heat losses and the mass transfer rate of the fuel. The author thanks K. I. Shchelkin for his guidance and Ya. K. Troshin and V. F. Komov for helpful discussions. Presented by Academician V. N. Kondrat'yev on 4 September 1965. Orig. art. has: 1 figure, 15 formulas.

SUB CODE: 07/

SUBM DATE: 02Aug65/

ORIG REF: 003/

GTH REF: 002

UDC: 541.126

Card 1/1

RYBA, A.

"Synthesis of some derivative alkaloids. III." Chemicke Zvesti, Bratislava, Vol. 8, No. 4, Apr. 1954, p. 210.

SO: Eastern European Accessions List, Vol. 3, No. 11, Nov. 1954, L.C.

RYBAR, B.

Plaster panels and ceramic fittings in our building construction. p. 246.
(POZEMNI STAVBY, vol. 2, no. 8, Aug. 1954, Praha)

SO: Monthly List of East European Accession, (EEAL), LC, Vol. 4,
No. 11, Nov. 1955, Uncl.

RYBAL, E.

Ceramic lining "Keramid" manufactured under cold conditions. p. 446.
POZEMNI STAVBY. (Ministerstvo stavebnictvi) Praha. Vol. 3, no. 11, Nov. 1955.

SOURCE: East European Accessions List, Vol. 5, no. 9, September 1956

RYBAR, B.

RYBAR, B. Floors for factory halls. p. 389

Vol. 4, no. 10, Oct. 1956

POZEMNI STAVBY

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

RYBAR, D.

RYBAR, D.

Newer findings on preparation and properties of rutin. Cas. česk.
lek. 63 no.12:133-136 June 50. (CLML 19:4)

1. Of the Institute of Pharmacology and Pharmacognosy, Charles
University (Head--Prof.B.Polak, "D.) and of the Laboratory of
Medika National Enterprise, Dispensary No 165.

RYBAR, DALIBOR

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and
Their Application - Medicinals, Vitamins,
Antibiotics

J-3

Abs Jour : Referat Zhur - Khimiya, No 2, 1958, 5594

Author : Rybar Dalibor

Inst : Not given

Title : Testing the Quality of Plasters

Orig Pub : Ceskosl. farmac., 1956, 5, No 5, 296-299

Abstract : For determination of the quality of plasters according to
the procedure described in American Pharmacopoeia 14, an
improvement is proposed which makes it possible to press
continuously the plaster to a bakelite support. Design of
equipment and method of determination are described

Card 1/2

Rybář, D.

✓ 633. Partition chromatography of sulphonamides on paper impregnated with a buffer. D. Rybář, B. Toušek and I. M. Hais (Chemofarmaz, Ústí nad Labem, Czechoslovakia) (Chem. Listy, 1954, 48 (10), 1632-1636).—The influence of pH on the separation of a number of sulphonamides by chromatography on paper (Whatman No. 1) impregnated with borate buffers, with *n*-butanol saturated with water as the mobile phase, was investigated. The dissociation of the sulphonamido group at higher pH and the ionisation of the aromatic amino group of the sulphonamides at lower pH leads to a lowering of their R_F values. The relationship between R_F or R_R values and pH is dependent on the pK values of the sulphonamides, but even at extreme values of pH no simple relationship has been established. By choosing a suitable buffer, the separation of sulphonamides by paper partition chromatography is readily achieved.

G. GLASER

(2)

RYBAR DALIBOR

Partition chromatography of sulfonamides on paper impregnated with a buffer. Dalibor Rybar, Bohumil Toušek, and Ivo M. Hais. *Chem. Listy* 48, 1632-6 (1954).—The effect of pH on the chromatographic sepn. of sulfonamides was studied by chromatography on Whatman 1 paper, impregnated with borate buffers. The BuOH-H₂O system and p-Me₂NC₆H₄CHO for the detection were used. Ionization of the aromatic NH₂ group at lower pH and dissociation of the SO₂NH₂ group at higher pH resulted in lowering the *R_f* values of the sulfonamides. The relation of the *R_f* and *R_M* values to pH depended on the pK values of the sulfonamides. No simple dependence was found, however, even at extreme values of pH. The choice of the buffer made the sepn. of sulfonamides by paper chromatography possible.

M. Hudlický

RYBAT, D.

RYBAT, D.

CZECH

✓ Partition chromatography of sulfonamides on paper
impregnated with a buffer. Dalibor Rybář, Bohumil
Toušek, and Ivo M. Hais. *Collection Czechoslov. Chem.*
Commun. 20, 724-6 (1955) (in German).—See C.A. 49
2031a. R. J. C. (2)

248: Determination of sulphonamides by polarographic titration. D. Rehat and V. Skřivan (Chemopharma, Anal. Lab., Jan. n.L., Czechoslovakia). Czechoslov. Farm., 1958, 5 (3), 147-149. Various sulphonamides were titrated with 0.1 M NaNO_2 (in 12.5% HCl) as reagent. A platinum rotating or stationary electrode is used as indicator electrode, and satd. calomel, graphite or platinum as reference electrodes. The electrodes are connected directly across a galvanometer (except the platinum reference electrode when a potential difference of 0.4 V is necessary). The average error is $\pm 0.5\%$.

J. VOLKE

RYBAR, D.

Chemical Abstracts
Vol. 48 No. 5
Mar. 10, 1954
Pharmaceuticals, Cosmetics,
and Perfumes

The photometric microdetermination and identification of alkaloids of ergot growing on *Lolium perenne*. D. Rybář, *et al.* *Českoslov. farm.* 2, 5-8(1953).—Ground defatted drug, 0.3 g., was extd. with Et₂O by percolation. From the thickened soln. the water-sol. alkaloids were extd. with McIlvaine buffer soln. pH 6.8, and then the water-insol. alkaloids with 2% soln. of tartaric acid. The photometric detn. with *p*-dimethylaminobenzaldehyde gave 275 mg. % water-insol. and 55 mg. % water-sol. alkaloids. By the paper chromatography of alk. and acid hydrolyzates of water-insol. alkaloids, dimethylpyruvic acid and valine was found, thus proving the alkaloids to be of the ergotoxine group. In the soln. of water-sol. alkaloids ergometrine and ergometrinine were found by paper chromatography.

D. Hubíková

Rybář, D.

Chem *2*
Determination of sulfonamides by polarographic titration.
D. Rybář and V. Štívan. *Czechoslov. farm.* 5, 147-9
(1956).—Sulfanilamide, sulfanilacetamide, sulfathiazole,
sulfaguanidine, and sulfadiazine were detd. by polaro-
graphic titration. Sulfanilamide (0.3 g.) was dried to const.
wt. at 105° and dissolved in 80 ml. 12.5% HCl by slight
heating. After cooling to 5°, the soln. was titrated with
0.1M soln. of NaNO₂, a Pt rotating or stationary electrode
being used as the indicating electrode and satd. HgCl₂ or
graphite electrode as the reference electrode. The method is
accurate to within 0.1-0.5%. K. Macek

CB

The use of sodamide in the preparation of oxindole from the phenylhydrazide of acetic acid. Jaroslav Staněk and Dalimír Rybář. *Chem. Listy* 40, 173-7 (1946).—AcNH-NH₂ (I) gave oxindole (II) with NaNH₂. The 3-benzylidene (III), 1-acetyl-3-benzylidene (IV), 3,α-dibromobenzylidene (V), 3-benzyl (VI), 3-furfurylideneoxindole (VII), 1-acetyl-3-furfurylidene (VIII), and 3,α-dibromofurfurylidene (IX) derivs. were prepd. The attempt to split the furan ring in VII was unsuccessful. Boiling 108 g. PhNHNH₂ in 125 ml. C₆H₆ with 105 ml. Ac₂O gives 123 g. (82%) I, m. 129° (from water), also prepd. by boiling PhNHNH₂ in 125 ml. C₆H₆ with 105 ml. Ac₂O gives 123 g. (82%) I, m. 129° (from water). To 15 g. I melted in a 100-ml. flask is quickly added 4 g. NaNH₂, the flask heated at 200-250° 1 hr. (oil bath), the mixt. digested with 100 ml. water, the soln. boiled with Norit, acidified to litmus with HCl, the soln. boiled with Norit, acidified to litmus with HCl, and the product crystd. from 10 parts water (Norit added), giving II, needles, m. 127°. II (13.3 g.) and 10.6 g. H₂SO₄ boiled 15 min. in 100 ml. C₆H₆ in the presence of 0.5 ml. C₆H₅N gave III, m. 176° (from EtOH), in most quant. yield. Heating III with Ac₂O and AcONa 6 hrs. and crystg. the product after adding water gave IV, m. 129° (from EtOH). III (3 g.) and 2.1 g. Br in C₆H₆ and re-

fluxed in an illuminated place until the color disappears (1 hr.) and the C₆H₆ gives V m. 194-5° (from EtOH). VI, prepd. from 2.2 g. V by hydrogenation on Raney Ni in 50 ml. EtOH at an elevated temp. (consumption of H₂ 250 ml.), m. 131° (from EtOH). II (133 g.), 96 g. furfural, and 5 ml. C₆H₅N in 1 l. C₆H₆ heated 15 min. to 100° give on cooling VII, m. 183° (from EtOH), insol. in water, sol. in hot EtOH. VIII was prepd. from VII analogously to IV, m. 154° (yellow needles). IX, prepd. from 10.6 g. VII and 8 g. Br in 100 ml. C₆H₆ by heating on a steam bath 1 hr., m. 225-8° (decompn.) (from EtOH). VII (10 g.) refluxed with 300 ml. EtOH and 50 ml. concd. HCl 10 hrs. was recovered unchanged. M. Hudlický

115

KOSTIR, J.V.; RYBAR, D.J.; OULEHIA, B.; HAIŠ, I.M.; BERAN, M.

Chromatographic determination of ergotamine and ergotoxine. Česk.
farm. 1 no. 11-12:621-625 1952. (GLML 24:1)

1. Of the Research Institute for Pharmacy and Biochemistry and of
Biochemistry of Charles University, Prague.

RYBAR, F.; Zyka, F.; Novak

"Production of Turbine Blades and Prospects for its Future Development" p. 741
(STROJIRENSTVI, Vol. 3, No. 10, October 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

RYBAR, F.

"Survey of plastic materials" by Havlicek, Osten and Smuparek.
Reviewed by F.Rybar. Stroj vyr 9 no.5:270 '61.

L 46791-66 EWP(j)/ DJ/RM
ACC NR: AP6032794 SOURCE CODE: CZ/0031/66/014/003/0203/0208
AUTHOR: Rybar, Frantisek
ORG: SKODA, Branch Enterprise, Plzen (SKODA, oborovy podnik)
TITLE: Plastic distribution systems for pressure and lubrication
SOURCE: Strojirenska vyroba, v. 14, no. 3, 1966, 203-208
TOPIC TAGS: pipeline, structural plastic, lubricant
ABSTRACT: The article discusses the various types of plastics used for the lines and fittings in pressure and lubrication distribution systems and their advantages and disadvantages. Problems of their installation are discussed. Numerous photographs and drawings of parts are presented. Orig. art. has: 17 figures.
[JPRS: 36,645]
SUB CODE: 13, 11 / SUBM DATE: none

Card 1/1 *hda*

RYBAR, Frantisek

Bearings from plastics. Stroj vyr 10 no.8:399-401 '62.

1. Zavody V.I. Lenina, n.p., Plzen.

RYBAR, F.

Lapping in practice. p.204.
(Strojirenska Vyroba, Vol. 5, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

RYBAR, F.

Cervenka, K.; Zyka, F. Drawing and production of broaches. p. 409.
STROJIRENSKA VYROBA, Prague, Vol. 3, no. 10, Oct. 1955.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

RYBAR, F.

Superfinishing of large diameters. p. 117.

STROJIRENSKA VYROBA, Praha, Czechoslovakia, Vol. 7, no. 3, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 7,
July 1959
uncla.

RYBAR, F.

Plastics and their further application. p. 216.

STROJIRENSKA VYROBA. (Ministerstvo tezkého strojirenstvi, Ministerstvo presneho strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskych stroju) Praha, Czechoslovakia. Vol. 7, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct. 1959. Uncl.

RYBAR, F.

Epoxide resins in the machinery industry. p. 483.

STROJIRENSKA VYROBA. (Ministerstvo tezkého strojírenství, Ministerstvo
presného strojírenství a Ministerstvo automobilového průmyslu a
zemědělských strojů) Praha, Czechoslovakia, Vol. 7, no. 11, Nov. 1959.

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 1,
Jan, 1960

Uncl.

RYBAR, F.

Technology of the production of blades for steam turbines. (To be contd.) p. 12.

STROJIRENSKA VYROBA, Prague, Vol. 4, no. 1, Jan. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6, June 1956, Uncl.

RYBAR, F.

Technology of the production of blades for steam turbines. p. 55.
STROJIRENSKA VYROBA, Prague, Vol. 4, no. 2, Feb. 1956.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

RYBAR, Frantisek

Epoxy resins in the machine industry. Tech praca 15 no.8:
585-587 Ag '63.

ZÁMUBA, Q; RYBÁŘ, J.

Czechoslovakia

Geological Institute CSAV -- Prague; Geologický
ústav ČSAV -- Praha) - (for all)

Prague, Věstník ústředního ústavu Geologického.
No 6, 1962, pp 465-467

"Relics of silicified Cretaceous sandstones in the
environs of Kladan."

RYBAR, J.

"Utilization of the water power of the Dunajec River and protection of the Pieniny National Park."

OCHRANA PRIRODY, Praha, Czechoslovakia, Vol. 11, No. 3, 1959.

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

FOLLFRECHT, J., inz.; RYBAR, J., inz.

Electric couplings. Strojirenstvi 11 no.11:829-834 N '61.

1. Leninovy zavody Plzen (for Follprecht) 2. Vysoka skola strojni a elektrotechnicka, Plzen (for Rybar)

(Machinery) (Couplings)

DANEK, V., inz.; RYBAR, J., inz.

Examination of flow conditions in turbocompressors by means
of electrolytic bath. Strojirenstvi 12 no.10:760-767
10 0 '62.

1. Ceskomoravska-Kolben-Danek Praha.

ZARUBA, Quido; RYBAR, Jan

Relics of silicified cretaceous sandstones in the Kadan area.
Vestnik ust geolog 37 no.6:465-469 N '62.

RYBAR, Andrew, 1911.

Reverse calculation of the resistances of an equivalent thermal circuit. BI tech obzor 59 no. 8:337-339 Js '64.

1. Higher School of Mechanical and Electrical Engineering,
Plezen.

RYBAR, Jindrich, inz.

A small resistance analogue computer for calculating the increase of temperature in electric machines. El tech obzor 51 no.8:410-413 Ag '62.

1. Vysoka skola strojni a elektrotechnicka, Plzen.

RYBAR, J.; ZARUBA, Q.

Experience with injections of sealing membranes into disturbed shales. p. 183.
(Inzenyrske Stavby, Vol. 5, No. 4, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAI) IC, Vol. 6, No. 8, Aug 1957. Uncl.

REBAR, C. C.

SURNAME (in caps); Given Names

Country: Czechoslovakia

Academic Degrees: /not given/

Affiliation: Institute of Geology (Geologický ústav), CSAV /Československá akademie věd; Czechoslovak Academy of Sciences/, Prague.

Source: Prague, Vestník Ústředního Ústavu Geologického, Vol XXVI, No 3, 1961, pp 223-227.

Data: "Pushed Beds at the Margin of the Brown Coal Basin Near Kadan."

269

RYBAR, Milan, inc.

Measurement of the electromagnetic field of transmitters.
Sdel tech 11 no.10:379-380 0 '63.

RYBAR, Vaclav, inz.; MACH, Jan, inz.

New trends in heat process intensification in rotary kilns.
Pt. 2. Hut listy 18 no. 3:539-545 Ag '63.

1. Vyzkumny ustav, Zelezne doly a khrudkovny, Mnisek pod Brdy.

MACH, Jan, inz.; RYBAR, Vaclav, inz.

New trends in heat process intensification in rotary kilns.

Pt. 1. Hut listy 18 no.7:460-464 J1 '63.

1. Vyzkumny ustav, Zelezne doly a hradkovny, Mnisek pod Brdy.

MACH, Jan, inz.; RYBAR, Vaclav, inz.

Possibilities of intensification and rationalization of the
Krupp-Renn process. Hut listy 17 no.10:685-689 0 '62.

1. Vyzkumny ustav, Zelezne doly a hrudkovny, Mnisek.

RYBAR, V.

Automatic-timing devices for functional control. p. 276.

AUTOMATIZACE. Praha, Czechoslovakia. Vol. 2, no. 9, Sept. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 2, Feb. 1960

Uncl.

RYBAR, V.

"Our repair shops help agriculture."

MECHANISACE ZEMEDELSTVI, Praha, Czechoslovakia, Vol. 5, No. 20, October 1955.

Monthly List of East European accessions (EFAI), LC, Vol. 8, No. 9, September 1959.

Unclassified.

RYBAR, V.

RYBAR, V. The 2nd National Conference of Steel Workers p. 321

Vol. 6, N^o. 11, Nov. 1956

HUTNIK

TECHNOLOGY

Praha, Czechoslovakia

So: East European Accessions, Vol, 6, NO. 3, March 1957

MACH, Jan, inz.; RYBAR, Vaclav, inz.

Study of the heating system of agglomerating kilns. Sbor
Vyzk ust Mnisek 4:7-39 '64.

1. Research Institute of the Zelezcrudne doly a hrudkovny
National Enterprise, Mnisek.

RYBAR, Vladimir; MALIK, Frantisek

Use of silent discharge in ozone production and in other chemical reactions. Elektrotechnik 18 no.10:287-290 0 '63.

1. Statni vyzkumny ustav silnoprroude elektrotechniky, Bechovice.

Rybarczyk, E.

The problem of capital demand in the food industry. (To be contd.) p. 417.

PRZEMYSŁ SPOŻYWCZY. (Stowarzyszenie Naukowo-Techniczne Inżynierów i Techników Przemysłu Spożywczego) Warszawa, Poland Vol. 13, no. 10, 1959.

Monthly list of East European Accessions (EEAI) LC, Vol.⁹/no. 2, Feb. 19~~60~~.

Uncl.

RYBARCZYK, S.

"Publishing activities of the Bureau of Studies and Model Projects of Rural Construction."

p. 6 (Budownictwo Wiejskie) Vol. 9, no. 12, Dec. 1957
Warsaw, Poland

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

DEFORMATION OF WELDED JOINTS MADE BY AUTOMATIC WELDING WITH SUBMERGED ELECTRODES. V.M.Rybarkov. Avtogennoe Delo 1948, vol. 19, No. 6, pp. 20-24. Abstract. Svarovani 1949, vol. 7, June. Experimental results obtained in tests on butt welds fillet and lap welds are described in the paper, and curves showing the relation between the deformation and the welding conditions, and the type and thickness of the electrodes used are also given. With butt welding the deformation is larger than in the case of manual welding.

Immediate source clipping

CEJKOVA, A.; VOJKOVSKA, M.; RYBAROVA, J.

Evaluation of sugar beet molasses from the 1962 crop for
production of citric acid. Kvasny prum 9 no.11:259-262 N'63.

1. Vyzkumny ustav lihovarskeho a konzervarenskeho prumyslu,
Praha.

CEJKOVA, A.; RYBAROVA, J.; SESTAKOVA, M.

Evaluation of the 1963 campaign sugar beet molasses for the production of citric acid. Kvasny prum 11 no.1:13-16 Ja '65.

1. Research Institute of Distillation and Canning Industry, Prague. Submitted September 30, 1964.

1. GEORGIADIS, A.; GEORGIADIS, J.; RYBARSKA, I.

Intradermal test with Motol allergen in patients with infectious hepatitis. Postepy mikrobiol 2 no.2:171-175 '63.

1. City Hospital, Nowa Huta and Department of Medical Microbiology, School of Medicine, Krakow.

RYBARSKA, Irena

PRZYBYLKIOWICZ, Zdzislaw; RYBARSKA, Irena

Studies on rapid determination of viability of BCG bacilli
in vaccines. Gruzlica 25 no.2:97-107 Feb 57.

1. Z Zakladu Mikrobiologii Lekarskiej A.M. w Krakowie Kierownik:
prof. dr. Z. Przybylkiowicz i z Zakladu Szczepienki BCG Krakowskiej
Wytworni Surewic i Szczepienek Kierownik: dr. W. Mazur. Adres:
Krakow, ul. Czysta 18.

(BCG VACCINATION,
determ. of viability of BCG bacilli in vaccine (Pol))
(MYCOBACTERIUM TUBERCULOSIS BOVIS,
BCG, determ. of viability in vaccine (Pol))

STARZYK, Jan; HASLINGER, Roman; RYBARSKA, Irena

Preliminary studies on detection viability of *Trichomonas vaginalis* Donne with the aid of safranine test. *Wiadomosci parazyt.*, Warsz. 4 no.5-6:547; Engl. transl. 548 1958.

1. Z Zakladu Mikrobiologii Ak. Med. i III Oddz. Polozn. -Ginekol. PSK w Krakowie.

(*TRICHOMONAS VAGINALIS*,

vitality, determ. with safranine test (Pol))

S/056/62/C43/C02/026/053
B104/B103

AUTHORS: Pavlikovski, A., Rybarska, V.
TITLE: Accuracy of the Bogolyubov method in the theory of non-spherical even-even nuclei
PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 43, no. 2(8), 1962, 543-550

TEXT: The interaction of n particles with a potential $-G \sum_{s,s'} a_{s+}^+ a_{s-}^+ a_{s,-} a_{s',+}$ on Ω doubly degenerate equidistant levels is analyzed. The Hamiltonian of this system is

$$H = \sum_{s=1}^{\Omega} \epsilon_s (a_{s+}^+ a_{s+} + a_{s-}^+ a_{s-}) - G \sum_{s,s'} a_{s+}^+ a_{s-}^+ a_{s,-} a_{s',+} \quad (2)$$

where a_{sq}^+ and a_{sq} are respectively the production and annihilation operators of fermions in states with the quantum numbers s, q ($s = 1, \dots, \Omega$; $q = \pm$); ϵ_s is the energy of a single-particle level; and

Card 1/2

Accuracy of the Bogolyubov ...

S/056/62/043/C02/C26/053
B104/B108

G is the pair interaction constant. The eigenvalue problem $H|\xi\rangle = \epsilon|\xi\rangle$ is exactly solved. When $\Omega = 5$ and $n = 6$, the single-particle energy spectrum is equidistant. This spectrum corresponds to a strongly deformed nucleus. In this case $\epsilon_s = s = 1, 2, 3, 4, 5$. The calculations were carried out for $G = \Delta\epsilon/2; 4\Delta\epsilon/5; \Delta\epsilon; 5\Delta\epsilon/4$, where $\Delta\epsilon$ is the distance between the levels. In real cases, $G = \Delta\epsilon/3$. In this case, greater values were chosen in order to preserve the characteristic pattern of the spectrum in the approximation. The results are compared with those obtained by the Bogolyubov method of (u,v) transformation. It is shown that the method presented here will always give greater values than Bogolyubov's. When the values of G are not too small, the succession of levels remains unaltered and the spectrum is very well reproduced. The error and its sign vary in the case of excited states. Projection of the approximate vectors onto a sub-space of n particles shows good agreement between the approximate and the exact values of the ground state and excited state energies of the system. There are 2 figures and 2 tables.

ASSOCIATION: Ob'yedinennyy institut yadernykh issledovaniy (Joint Institute of Nuclear Research)
SUBMITTED: February 20, 1962
Card 2/2

VOLKOV, M.K.; PAVLIKOVSKI, A.; RYBARSKA, V.; SOLOV'YEV, V.G.

Exactitude attainable in calculating the properties of heavily deformed nuclei on the basis of a superfluid model. Izv. AN SSSR. Ser. fiz. 27 no.7:878-890 '63. (MIRA 16:8)

1. Laboratoriya teoreticheskoy fiziki Ob'yedinennogo instituta yadernykh issledovaniy.

(Nuclear models)

PAVLIKOVSKI, A.; RYBARSKA, V.

Accuracy of Bogoliubov's method in the theory of even-even
nonspherical nuclei. Zhur. eksp. i teor. fiz. 43 no.2:543-550
Ag '62. (MIRA 16:6)

1. Ob"yedinennyy institut yadernykh issledovaniy.
(Nuclear reactions)

L 65210-65 ZWT(1)

ACCESSION NR: AP5012555

UR/0181/65/007/005/1436/1446

AUTHOR: Rybarska, V. 44/55

TITLE: Quantum theory of anisotropic single-domain ferromagnets

SOURCE: Fizika tverdogo tela, v. 7, no. 5, 1965, 1436-1446 44/55

TOPIC TAGS: ferromagnetic material, magnetic domain structure, uniaxial crystal, magnetization, Green function

ABSTRACT: The author investigates the properties of a single-domain anisotropic ferromagnet describable by a Hamiltonian of the Heisenberg type. The magnetization vector is calculated as a function of the temperature and of the external magnetic field for an arbitrary value of the spin. The two-time thermodynamic Green's function method, as developed by A. Pawlikowski (Acta Physica Polonica v. 27, 3, 1965 and earlier papers) is used. Equations are obtained by this method for the length and for the direction cosines of the magnetization vector. The derived equations for the direction cosines are the consequence of the physical requirement that these functions must satisfy definite analytic properties. A simple model of a uniaxial ferromagnet is considered as an example. "I thank A. Pawlikowski for numerous discussions and remarks, and also E. Czernonko for a critical discussion of the examples." Orig. art. has: 84 formulas. 44/55

Card 1/2

L 65210-65

ACCESSION NR: AP5012555

ASSOCIATION: Vrotslavskiy universitet, Pol'skaya Narodnaya Respublika (Wroclaw University, Poland)

SUBMITTED: 07Sep64

ENCL: 00

SUB CODE: SS, GP

NR REF SOV: 005

OTHER: 007

Card 2/2

L 17857-63

EWI(m)/BDS AFTC/ASD

ACCESSION NR: AP3003690

S/0048/63/027/007/0878/0890

AUTHOR: Volkov, M.K.; Pavlikovski, A.; Rybarska, V.; Solov'yev, V.G.

TITLE: Accuracy of superfluid model calculations of the properties of strongly deformed nuclei¹/Report of the Thirteenth Annual Conference on Nuclear Spectroscopy held in Kiev from 25 January to 2 February 1963/

SOURCE: AN SSSR, Izv.Seriya fizicheskaya, v.27, no.7, 1963, 878-890

TOPIC TAGS: nuclear level, Bogolyubov method, superfluid nuclear model

ABSTRACT: During the past few years one of the authors (V.G.Solov'yev) alone and in collaboration with others (numerous citations) published calculations of the characteristics and behavior of levels in odd nuclei, energies of two-quasi-particle states in even-even nuclei and the influence of pairing correlations on transition probabilities in strongly deformed nuclei in the mass number regions from 152 to 188 and 225 to 225. Despite the fact that generally good agreement was obtained with experimental data, the accuracy of the calculations stands in need of checking in view of the fact that certain approximations were involved. In the present paper the authors investigate the accuracy of the mathematical method based on the Bogolyubov canonical transformation, which was used for calculating the energies

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L 17857-63

ACCESSION NR: AP3003690

6
cf. single-quasi-particle excited states of systems with an odd number of nucleons, the energies of two-quasi-particle states of systems consisting of an even number of nucleons, and the corrections connected with superfluidity of the ground and excited states to be applied to calculated transition probabilities, that are used to evaluate β values for β -transition, forbiddenness factor in α -decays, etc. The various approximations are discussed and some precise and approximate calculations are compared. It is concluded that the accuracy of calculations based on the superfluid nuclear model is limited mainly by inadequate knowledge of the levels in the "average" field and their fluctuation, and not by the mathematical formalism. It is estimated that the error in the calculation of the energies of two-quasi-particle levels amounts to 10-20%; the error in calculating the corrections to α , β and γ transition probabilities varies in the range from 10 to 100%. "In conclusion we express our deep gratitude to N.N.Bogolyubov, I.N.Mikhaylov and N.I.Pyatov for valuable discussions and to N.A.Buzjavina, I.N.Kukhtina and R.N.Fedorova for numerical computations." Orig.art.has: 8 formulas, 5 figures and 5 tables.

ASSOCIATION: Joint Institute for Nuclear Studies.

Card 2/3

PAVLIKOVSKIY, A.; RYBARSKA, V.; SARANTSEVA, V.R., tekhn. red.

[Testing the accuracy of Bogoliubov's method in the theory of even-even nonspherical nuclei] Izuchenie tochnosti metoda Bogoliubova v teorii chetno-chetnykh nesfericheskikh iader. Dubna, Ob"edinennyi in-t iadernykh issl., 1962. 30 p.

(MIRA 15:4)

(Nuclear reactions)

RYBARSKA, V. [Rybarska, W.]

Quantum theory of anisotropic single-domain ferromagnets. Fiz.
tver. tela 7 no.5:1436-1446 My '65. (MIRA 18:5)

1. Vrotslavskiy universitet, Pol'skaya Narodnaya Respublika.

RYBARSKI, A. (Wroclaw)

On the problem of variational principles of equations of synchronous machinery. Zastos mat 4 no.4:350-360 '59. (EEAI 9:7)

1. Mathematisches Institut der Polnischen Akademie der Wissenschaften.
(Functions) (Electromechanical analogies)
(Electric motors, Synchronous)
(Differential equations)

RYBARSKI, A. (Wroclaw)

A method of linearization of differential equations of the type of
the pendulum equation. Zastos mat 5 no.3:247-259 '60.
(EEAI 10:9)

(Differential equations) (Approximate computation)
(Pendulum)

S/035/62/000/001/034/038
A001/A101

AUTHOR: Rybarski, A.

TITLE: The method of linearization of differential equations of the type of pendulum equations

PERIODICAL: Referativnyi zhurnal. Astronomiya i Geodeziya, no. 1, 1962, 29, abstract 1G201 ("Zastosow. mat.", 1960, v. 5, no. 3, 247-259, Polish, Russian and Engl. summaries)

TEXT: The author presents an approximate method of solving differential equations of the type

$$\ddot{y} + f(y) = 0,$$

based on replacement of this equation by the equation

$$\ddot{y} + ay + b = 0,$$

where a and b are constant coefficients chosen in the proper way. A formula for evaluating the error is derived, and the values of coefficients which minimize the error are pointed out. The iteration method is considered which is based on

Card 1/2

The method of linearization ...

S/035/62/000/001/034/038
A001/A101

the solution of equation of the type

$$\ddot{y} + ay + h(t) = 0,$$

where constant a and function $h(t)$ are chosen correspondingly. Conditions for the convergence of the iteration process are investigated, and an error of solution is estimated. The method described is illustrated by an example of solving the equation of pendulum. ✓

I. Shelikhova

[Abstracter's note: Complete translation]

Card 2/2

AREYICKI, A.; RZBANSKI, A.

On a linearization of an equation of an elastic rod. Pt. 2.
Festschrift no. 7 no. 1383-1390 1964.

Inst. Mathematical Institute of the Wroclaw University and Institute
of Mathematics of the Polish Academy of Sciences. Submitted
September 25, 1963.

RYBARSKI, A.

Linearization Method for the Differential Equation of the Pendulum Type

Rybarski, A. Über eine gewisse Linearisationsmethode der Differentialgleichungen vom Pendeltypus. Bull. Acad. Polon. Sci. Sér. Sci. Math. Astr. Phys. 6 (1958), 175-179.

Let y_0 be a strictly monotonic, continuous solution of

$$(1) \quad y'' + g(y) = 0, \quad g(y) \in C(-\infty, \infty),$$

on $[0, T]$, except possibly at a finite set of points $t_1, \dots, t_n$, where y_0'' and y_0' may have finite jumps. The problem dealt with in this paper is the approximation of y_0 by the solution $y_{ap}(t, a, b)$ of a linear equation

$$(2) \quad y'' + ay + b = 0,$$

under the condition

$$(3) \quad y_{ap}(0, a, b) = y_0(0); \quad y_{ap}(T, a, b) = y_0(T);$$

$$y_{ap}(t_k, a, b) = y_0(t_k) \quad (k=1, \dots, n).$$

It is assumed that $0 \leq a < w^2$, where $w = \pi / \max_{0 \leq k \leq n} |t_{k+1} - t_k|$ ($t_0 = 0, t_{n+1} = T$). Under this condition the boundary value problem (2) and (3) is solvable. It is then shown that

$$(4) \quad \|y_0' - y_{ap}'\| \leq w \|g(y_0) - ay_0 - b\| / (w^2 - a),$$

where the norm is that of $L_2(0, T)$. The "best linear

2
1-F/W

Rybański, A.

approximation" to equation (1) is determined, in the sense that the constants $a \in [0, w^2]$ and $b \in (-\infty, \infty)$ which minimize the right side of (4) are found. In certain cases, the "best approximation" can be replaced by one which differs little from it, but is more practical for computational purposes. An example is given in the last section. There is a misprint in the formula for y_{ap} in this example; under the given boundary conditions, the solution should be

(5) $y_{ap}(t) = x_m \{ \sin at + \sin a(t-T) \} / \sin aT.$

J. Elliott (New York, N.Y.)

KRZYWICKI, A.; RYBARSKI, A. (Wroclaw)

On a linearization of an equation of an elastic rod. Zastos mat
6 no.3:321-332 '62.

1. Instytut Matematyczny, Polska Akademia Nauk, Warszawa.

RYBARKI, A.

Approximate formulas of vibration frequency in conservative systems. Pts. 1-2. Zastos mat 7 no.3:235-269 '64.

1. Institute of Mathematics, Polish Academy of Sciences, Wroclaw.

RYBARSKI, A.

Linearization of differential equations of the pendulum type.
Bul Ac Pol mat 10 no.4:217-220 '62.

1. Instytut Matematyczny, Polska Akademia Nauk, Warszawa. Presented
by H.Steinhaus.

8/044/63/000/002/013/050
A060/A126

AUTHORS: Krzywicki, A., Rybarski, A.

TITLE: On a linearization of the equation of an elastic rod

PERIODICAL: Referativnyy zhurnal, Matematika, no. 2, 1963, 39, abstract 2B167
(Zastosow. mat., 1962, v. 6, no. 3, 321 - 332; English; summaries
in Polish, Russian)

TEXT: The author investigates a system of three nonlinear differential equations representing the shape of an elastic rod rigidly clamped at one end and subjected at the other end to a force perpendicular to the axis of the undeformed rod. As is known, the system under investigation is integrated with the aid of elliptic integrals. The authors give certain approximate solutions of the equations, containing elementary functions and Bessel functions. These approximate solutions are obtained by applying the method of linearization, similar to the method of harmonic linearization known from the theory of nonlinear oscillations. An error estimate is also obtained for the approximate solutions. The case of small deformations of the rod is considered separately. Numerical

Card 1/2

On a linearization of the equation of

examples are cited.

[Abstracter's note: Complete translation]

S/044/63/000/002/013/050
A060/A126

Author's summary

Card 2/2

RYBARSKI, A.

Approximate characteristic equations of nonlinear conservative vibration systems. Bul Ac Pol mat 10 no.10:519-522 '62.

1. Instytut Matematyczny, Polska Akademia Nauk, Warszawa.
Presented by H.Steinhaus.

RYBARSKI, A.

A minimum principle in the theory of conservative systems.
Bul Ac Pol mat 12 no. 1: 21-24 '64.

1. Institute of Mathematics, Polish Academy of Sciences,
Warsaw. Presented by H. Steinhaus.

RIEANDI, A.: GIANESI, S.

Modeling three-dimensional fields by a plane field of current. p.150
ZBIOROWA MATEMATYKI (Polska Akademia Nauk. Instytut Matematyczny) Warszawa
Vol. 2, no. 2, 1955

So. East European Accessions List Vol. 2, No. 9 September 1956

RYBARSKI, Jerzy, mgr

Distribution principles of industry according to re-
quirements of national defense. Przegl techn 85 no. 24:
10 14 Je '64.

RYBARZ, Josef

g

Rybarz, Josef. Zum Hattendorffschen Satz. Statist. Vierteljahrsschr. 2, 32-36 (1949).

Hattendorff's theorem can be stated and proved in two different ways, according as the discrete or the continuous method is used. [For a survey see A. Berger, Assekuranzjahrbuch 50, 18-39 (1931).] The author employs Stieltjes integrals to give a unified formulation and proof for both variants of Hattendorff's theorem.

J. Lukacs (Washington, D. C.).

Source: Mathematical Reviews,

Vol 12, No. 2

Smul
Luk

RYBARZ, K.

How the Club of Technique and Rationalization of the Peace Steel Mill works.
p. 81. (WIADOMOSCI HUTNICZE, Vol. 10, No. 3, Mar. 1954, Stalinogrod, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 3, No. 12, Dec.
1954, Uncl.

CHERVYAKOV, F.Ya.; RYBARZH, A.A. [deceased] redaktor; ASTAKHOV, A.V., redaktor; KOROVENKOVA, Z.A., tekhnicheskiiy redaktor.

[Choice of steel for mining machinery parts and their heat treatment]
Vybor stali dlia detalei gornyykh mashin i ikh termicheskaya obrabotka.
Moskva, Ugletekhnizdat, 1954. 283 p. (MIRA 8:1)
(Steel--Heat treatment) (Mining machinery)

18(0);25(1)

PHASE I BOOK EXPLOITATION SOV/2342

Rybarzh, A.A.

Materialy dlya glubokoy shtampovki (Materials for Deep Drawing)
Moscow, Mashgiz, 1959. 191 p. Errata slip inserted. 6,500
printed.

Ed.: A.A. Gol'denberg, Candidate of Technical Sciences, Docent;
Ed. of Publishing House: V.A. Mezheva; Tech. Ed.: G.V.
Smirnova; Managing Ed. for Literature on Heavy Machine Building
(Mashgiz): S. Ya. Golovin.

PURPOSE: The book is intended for process and production en-
gineers in the field of cold and hot stamping.

COVERAGE: The book deals with the characteristic features of
sheet steel. Chemical compositions, mechanical properties,
quality indexes, and methods of fabrication are discussed in
detail. Sheet material made from nonferrous and special alloys
and heat-resistant steels are also discussed. No personalities
are mentioned. There are 6 references, all Soviet.

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AVAILABLE: Library of Congress

Card 5/5

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10-9-59

RYABENKO, G.M., telefonistka, udarnik kommunisticheskogo truda; RYBAS', G.M.

Conference by mail of the workers of long-distance telephone exchanges. Vest. svyazi 24 no.7:16 J1 '64.

(MIRA 17:9)

1. Voronezhskaya mezhdugorodnaya telefonnaya stantsiya (for Ryabenko). 2. Nachal'nik Snigirevskogo rayonnogo uzla svyazi Nikolayevskoy oblasti (for Rybas').